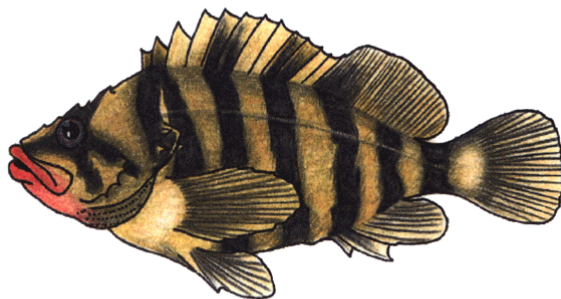


Treefish, *Sebastes serriceps*

1993-1999 Commercial Catch by Ports & Blocks



Marine Fishery Profiles

Volume 1: Nearshore

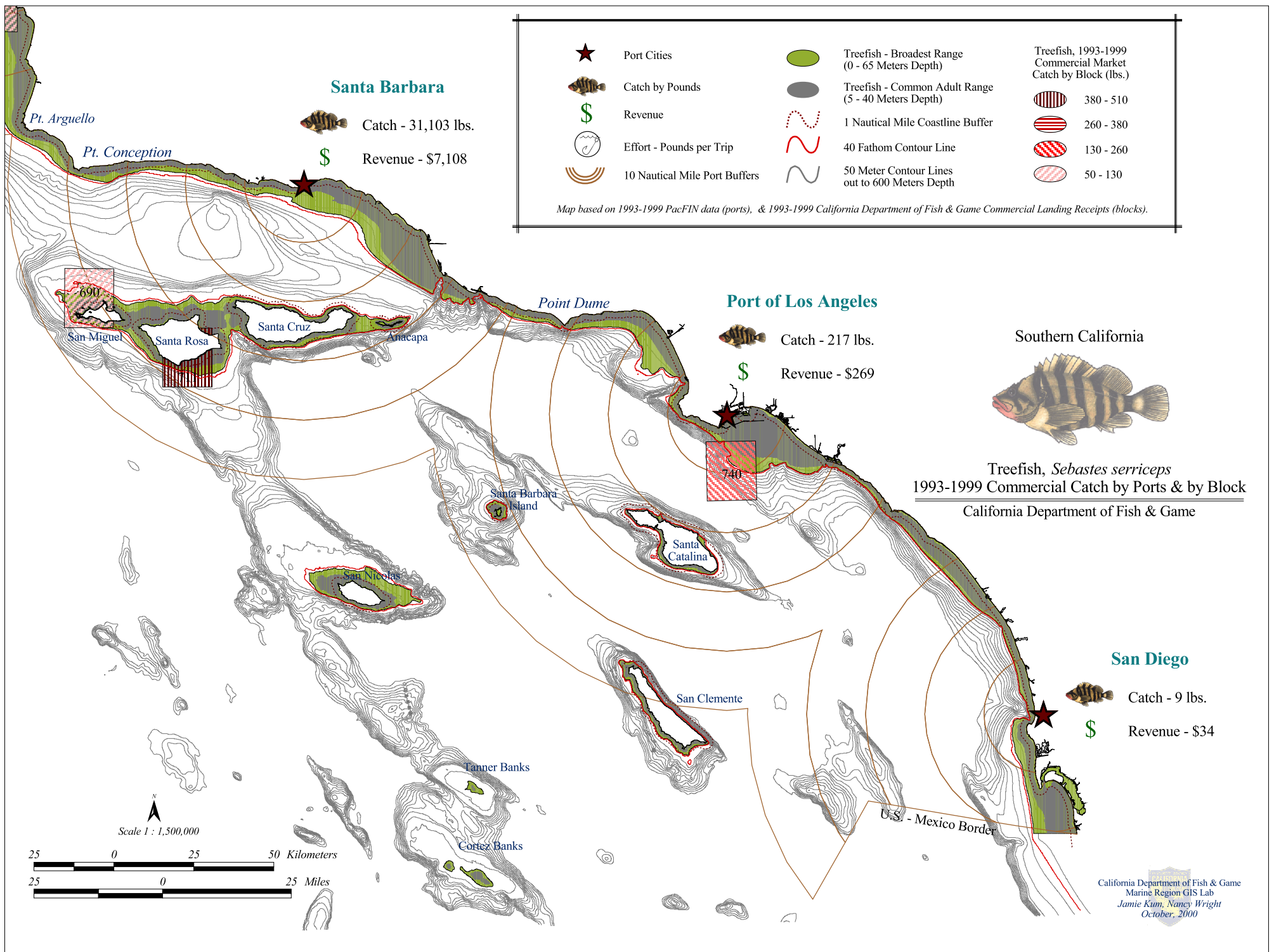
Marine Region GIS Lab

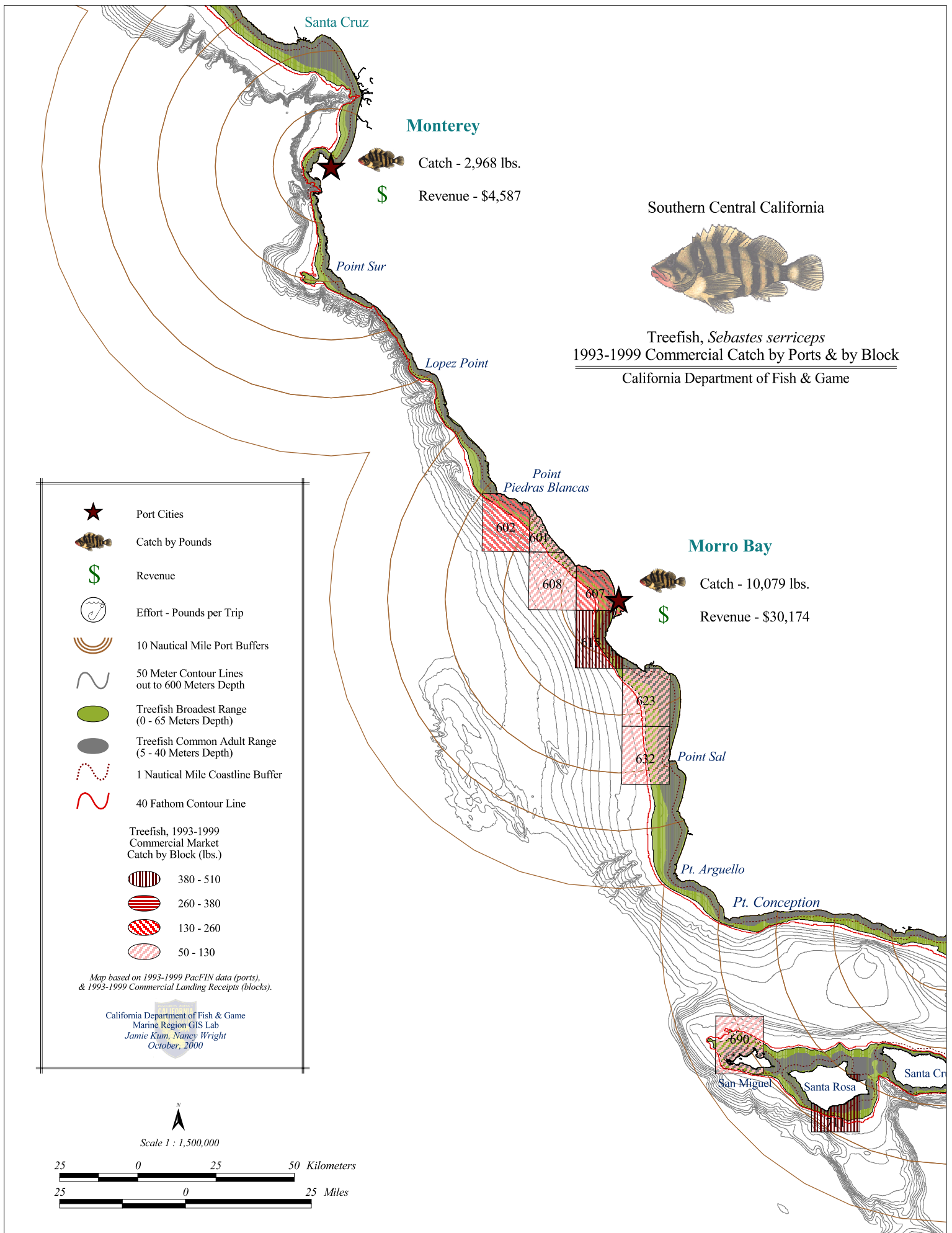
Nancy Wright	Eric Knaggs
Jamie Kum	Bob Leos
Chad King	Colleena Perez



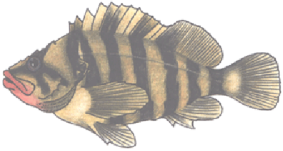
California Department of Fish & Game
Marine Region

December 2000





Northern Central California



Treefish, *Sebastes serriceps*
1993-1999 Commercial Catch by Ports & by Block
California Department of Fish & Game

San Francisco



Catch - 663 lbs.



Revenue - \$547

Half Moon Bay

Santa Cruz

Monterey



Catch - 2,968 lbs.



Revenue - \$4,587

Point Sur

Lopez Point

Point
Piedras Blancas

- ★ Port Cities
- Catch by Pounds
- \$ Revenue
- Effort - Pounds per Trip
- 10 Nautical Mile Port Buffers
- 50 Meter Contour Lines out to 600 Meters Depth
- Treefish Broadest Range (0 - 65 Meters Depth)
- Treefish Common Adult Range (5 - 40 Meters Depth)
- 1 Nautical Mile Coastline Buffer
- 40 Fathom Contour Line

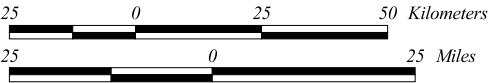
Treefish, 1993-1999
Commercial Market
Catch by Block (lbs.)

- 380 - 510
- 260 - 380
- 130 - 260
- 50 - 130

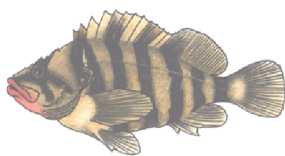
Map based on 1993-1999 PacFIN data (ports),
& 1993-1999 Commercial Landing Receipts (blocks).

California Department of Fish & Game
Marine Region GIS Lab
Jamie Kum, Nancy Wright
October, 2000

Scale 1 : 1,500,000



Northern California



Treefish, *Sebastes serriceps* 1993-1999 Commercial Catch by Ports & by Block California Department of Fish & Game

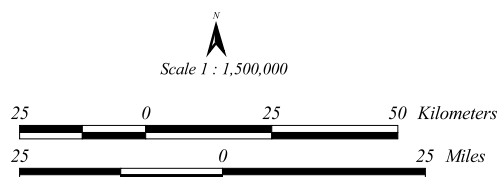
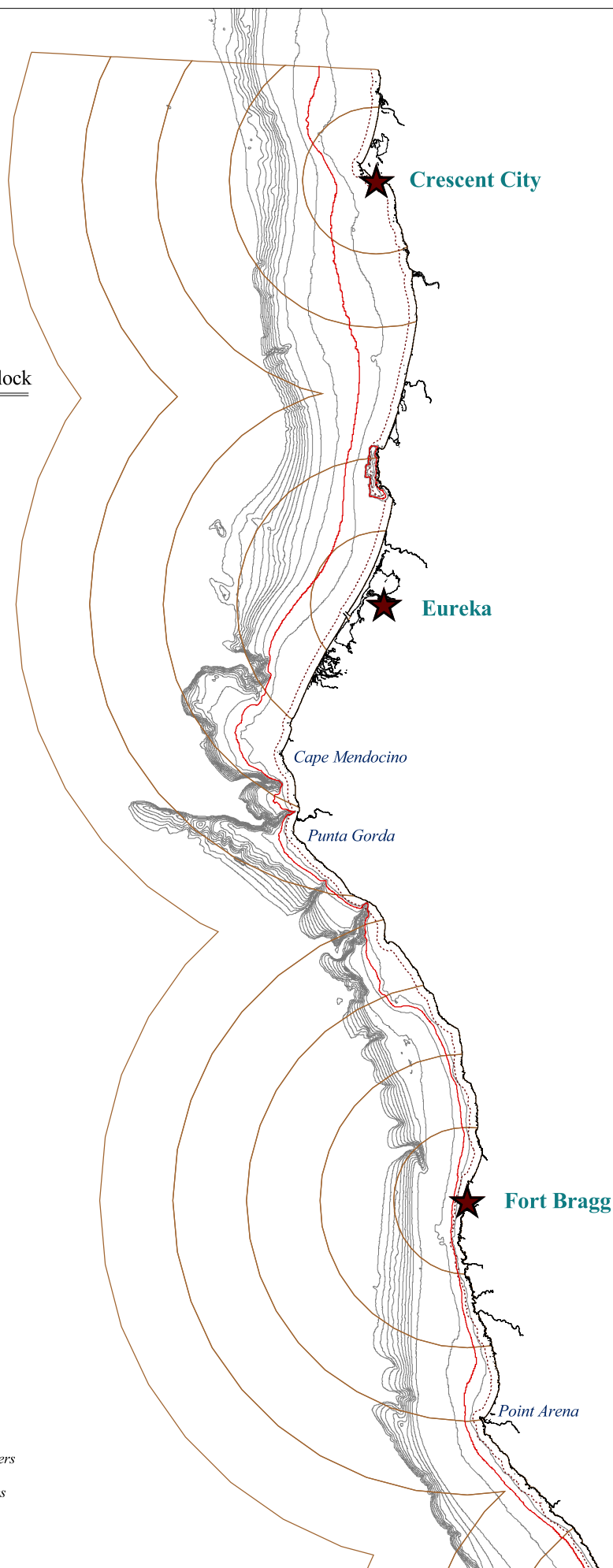
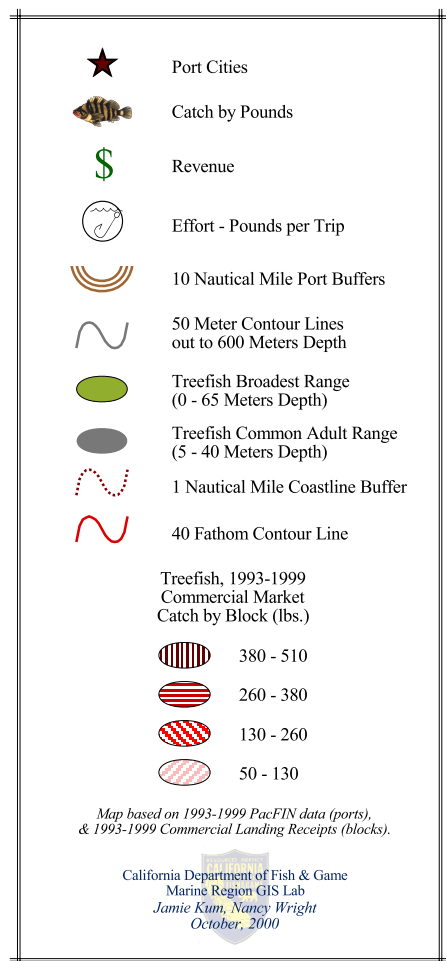


Figure 1. (refer to table 1) CDFG Commercial Receipts Data (1993 - 1999)
Total Pounds of Treefish Caught and Average Price per Pound by Month

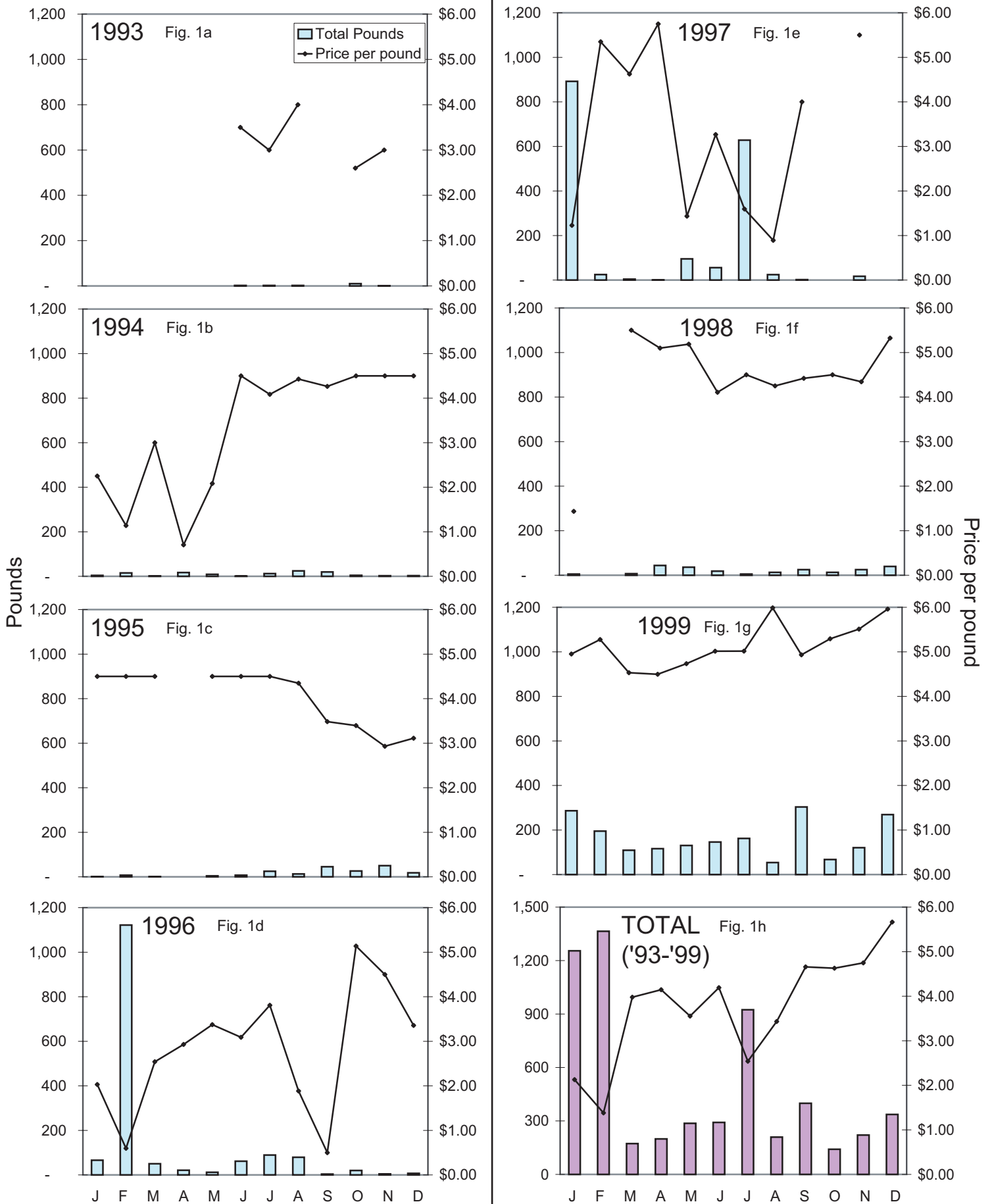


Table 1. (refer to fig. 1) CDFG Commercial Receipts Data (1993 - 1999)
Total Pounds of Treefish Caught and Average Price per Pound by Month

1993
Table 1a

Month	Total Pounds	Price per Pound
Jan	no data	no data
Feb	no data	no data
Mar	no data	no data
Apr	no data	no data
May	no data	no data
Jun	2	\$3.50
Jul	2	\$3.00
Aug	2	\$4.00
Sep	no data	no data
Oct	10	\$2.60
Nov	1	\$3.00
Dec	no data	no data
Total	17	\$2.94

1997
Table 1e

Month	Total Pounds	Price per Pound
Jan	892	\$1.23
Feb	25	\$5.35
Mar	4	\$4.63
Apr	1	\$5.75
May	95	\$1.43
Jun	56	\$3.27
Jul	628	\$1.59
Aug	25	\$0.89
Sep	2	\$4.00
Oct	no data	no data
Nov	17	\$5.50
Dec	no data	no data
Total	1,744	\$1.54

1994
Table 1b

Month	Total Pounds	Price per Pound
Jan	4	\$2.25
Feb	15	\$1.14
Mar	2	\$3.00
Apr	17	\$0.71
May	9	\$2.08
Jun	1	\$4.50
Jul	12	\$4.08
Aug	24	\$4.43
Sep	20	\$4.26
Oct	4	\$4.50
Nov	3	\$4.50
Dec	3	\$4.50
Total	114	\$3.10

1998
Table 1f

Month	Total Pounds	Price per Pound
Jan	5	\$1.43
Feb	no data	no data
Mar	7	\$5.50
Apr	44	\$5.10
May	36	\$5.19
Jun	18	\$4.11
Jul	5	\$4.50
Aug	13	\$4.25
Sep	25	\$4.42
Oct	13	\$4.50
Nov	25	\$4.34
Dec	40	\$5.32
Total	231	\$4.75

1995
Table 1c

Month	Total Pounds	Price per Pound
Jan	1	\$4.50
Feb	8	\$4.50
Mar	1	\$4.50
Apr	no data	no data
May	5	\$4.50
Jun	7	\$4.50
Jul	25	\$4.50
Aug	13	\$4.35
Sep	46	\$3.48
Oct	26	\$3.40
Nov	50	\$2.93
Dec	18	\$3.11
Total	199	\$3.59

1999
Table 1g

Month	Total Pounds	Price per Pound
Jan	287	\$4.95
Feb	195	\$5.28
Mar	109	\$4.53
Apr	116	\$4.50
May	130	\$4.73
Jun	146	\$5.01
Jul	162	\$5.02
Aug	54	\$5.99
Sep	304	\$4.93
Oct	68	\$5.29
Nov	121	\$5.51
Dec	269	\$5.96
Total	1,960	\$5.14

1996
Table 1d

Month	Total Pounds	Price per Pound
Jan	66	\$2.03
Feb	1,122	\$0.60
Mar	50	\$2.54
Apr	21	\$2.93
May	12	\$3.37
Jun	62	\$3.09
Jul	89	\$3.81
Aug	79	\$1.88
Sep	4	\$0.50
Oct	20	\$5.14
Nov	5	\$4.50
Dec	7	\$3.36
Total	1,536	\$1.21

TOTAL
'93 - '99
Table 1h

Month	Total Pounds	Price per Pound
Jan	1,255	\$2.13
Feb	1,364	\$1.38
Mar	173	\$3.98
Apr	199	\$4.14
May	287	\$3.55
Jun	292	\$4.19
Jul	924	\$2.54
Aug	209	\$3.43
Sep	399	\$4.66
Oct	141	\$4.63
Nov	221	\$4.75
Dec	337	\$5.67
Total	5,801	\$2.90

Figure 2. (refer to table 2) Pacific Fisheries Information Network Data (1993 - 1999)
Total Pounds of Treefish Caught and Average Price per Pound by Month

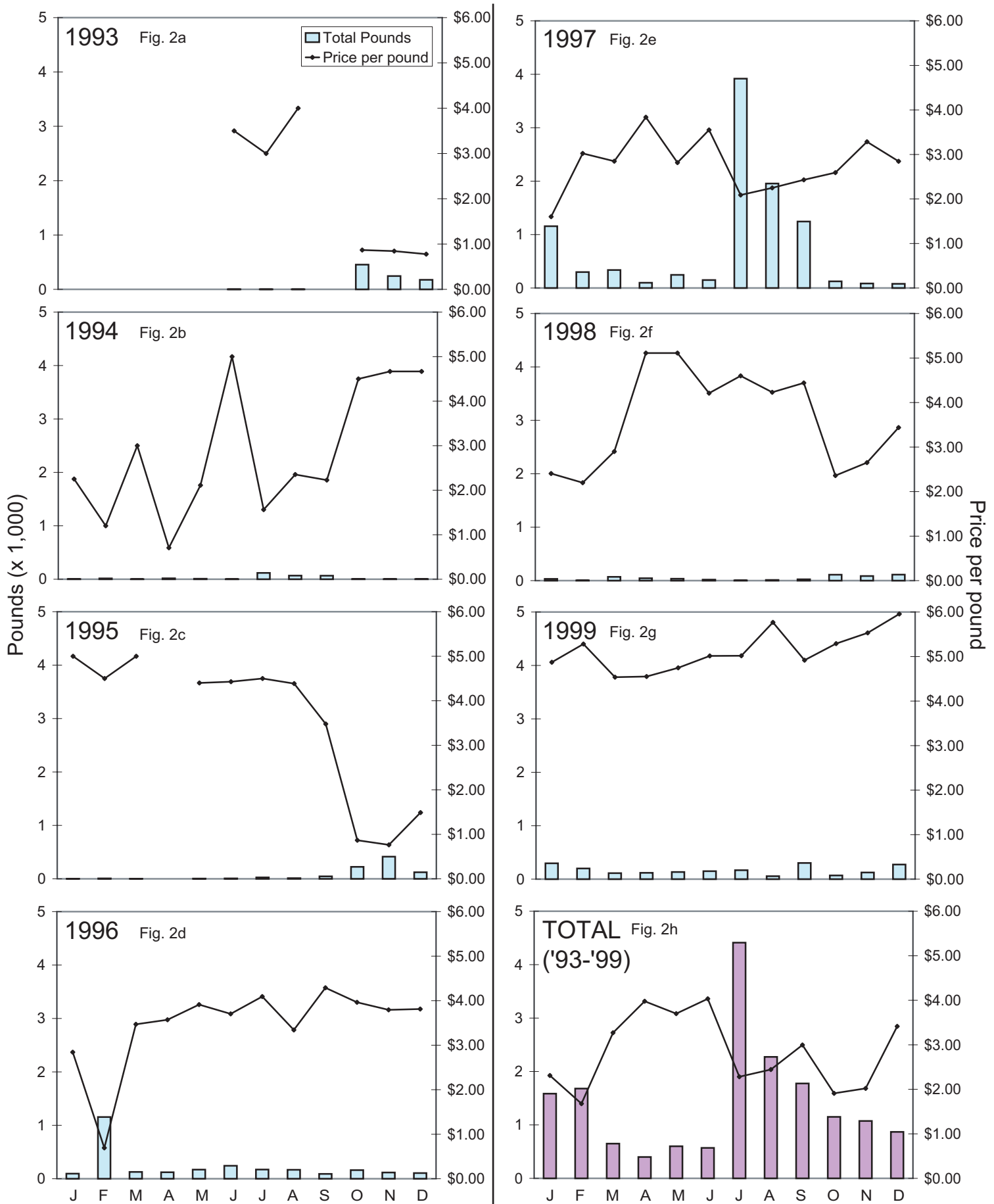


Table 2. (refer to fig. 2) Pacific Coast Fisheries Information Network Data (1993 - 1999)
Total Pounds of Treefish Caught and Average Price per Pound by Month

1993

Table 2a

Month	Total Pounds	Price per Pound
Jan	no data	no data
Feb	no data	no data
Mar	no data	no data
Apr	no data	no data
May	no data	no data
Jun	2	\$3.50
Jul	2	\$3.00
Aug	2	\$4.00
Sep	no data	no data
Oct	455	\$0.87
Nov	245	\$0.84
Dec	175	\$0.78
Total	881	\$0.86

1997

Table 2e

Month	Total Pounds	Price per Pound
Jan	1,157	\$1.60
Feb	298	\$3.02
Mar	337	\$2.85
Apr	98	\$3.84
May	246	\$2.82
Jun	149	\$3.55
Jul	3,919	\$2.09
Aug	1,955	\$2.25
Sep	1,245	\$2.43
Oct	125	\$2.59
Nov	84	\$3.29
Dec	78	\$2.85
Total	9,691	\$2.24

1994

Table 2b

Month	Total Pounds	Price per Pound
Jan	4	\$2.25
Feb	15	\$1.20
Mar	2	\$3.00
Apr	17	\$0.71
May	9	\$2.11
Jun	1	\$5.00
Jul	119	\$1.56
Aug	68	\$2.35
Sep	66	\$2.23
Oct	4	\$4.50
Nov	3	\$4.67
Dec	3	\$4.67
Total	311	\$1.95

1998

Table 2f

Month	Total Pounds	Price per Pound
Jan	32	\$2.41
Feb	5	\$2.20
Mar	70	\$2.90
Apr	45	\$5.11
May	36	\$5.11
Jun	19	\$4.21
Jul	5	\$4.60
Aug	13	\$4.23
Sep	25	\$4.44
Oct	111	\$2.36
Nov	86	\$2.65
Dec	112	\$3.44
Total	559	\$3.31

1995

Table 2c

Month	Total Pounds	Price per Pound
Jan	1	\$5.00
Feb	8	\$4.50
Mar	1	\$5.00
Apr	no data	no data
May	5	\$4.40
Jun	7	\$4.43
Jul	26	\$4.50
Aug	13	\$4.38
Sep	46	\$3.48
Oct	225	\$0.87
Nov	415	\$0.76
Dec	123	\$1.49
Total	870	\$1.30

1999

Table 2g

Month	Total Pounds	Price per Pound
Jan	297	\$4.87
Feb	199	\$5.28
Mar	112	\$4.54
Apr	118	\$4.55
May	134	\$4.75
Jun	149	\$5.01
Jul	168	\$5.02
Aug	56	\$5.77
Sep	303	\$4.92
Oct	69	\$5.29
Nov	124	\$5.53
Dec	273	\$5.96
Total	2,002	\$5.12

1996

Table 2d

Month	Total Pounds	Price per Pound
Jan	95	\$2.84
Feb	1,155	\$0.69
Mar	128	\$3.47
Apr	121	\$3.57
May	171	\$3.91
Jun	243	\$3.70
Jul	172	\$4.09
Aug	167	\$3.34
Sep	90	\$4.29
Oct	161	\$3.96
Nov	116	\$3.79
Dec	106	\$3.81
Total	2,725	\$2.44

TOTAL
'93 - '99

Table 2h

Month	Total Pounds	Price per Pound
Jan	1,586	\$2.31
Feb	1,680	\$1.68
Mar	650	\$3.27
Apr	399	\$3.98
May	601	\$3.70
Jun	570	\$4.03
Jul	4,411	\$2.28
Aug	2,274	\$2.44
Sep	1,775	\$3.00
Oct	1,150	\$1.91
Nov	1,073	\$2.02
Dec	870	\$3.41
Total	17,039	\$2.52

Abbreviated Life History of the Treefish (*Sebastes serriceps*)

Treefish are a nearshore rockfish species that inhabit shallow, rocky habitats. They are striking in appearance with a yellowish ground color and five to six vertical black bars on the side.

Distribution, Stock Structure and Migration

Treefish range from Cedros Island, Baja California to San Francisco. The depth range they inhabit is shallow to 150 ft. Treefish are a residential species with a limited home range; they do not exhibit migrational activity.

Age and Growth

The maximum size for treefish is 16 in. TL.

Reproduction, Fecundity and Seasonality

No data are available for size at maturity for this species. Treefish are thought to spawn once annually in late winter.

Natural Mortality

There is no information on treefish natural mortality.

Diseases

No information is available on diseases in treefish.

Predator/Prey Relationships

Treefish are ambush predators that feed nocturnally on benthic invertebrates, including mollusks and crustaceans, and small fish. Juveniles are fed upon by rockfishes, lingcod, cabezon, salmon, birds, porpoises, and least terns. Adults are preyed upon by sharks, dolphins, and seals.

Competition

Treefish are solitary and highly territorial. They may compete with other treefish and nearshore rockfish species such as gopher, grass, and black-and-yellow rockfishes for food and shelter habitat.

Critical Habitat

Juvenile treefish are found in drifting mats of kelp, in areas of high rocky relief, and on artificial reefs. Adult treefish are found on shallow rocky reefs, frequently in caves and crevices. They are also found in similar habitats on artificial reefs in southern California.

Status of Stocks

There are no estimates of abundance for treefish in California. In southern California, treefish are an important species in both the nearshore recreational fishery and in the commercial fishery for live fish.